

MECHANICAL CHARACTERISTICS

INTERFACE	MIL-STD-348, FIGURE 313.1 (SEE NOTE 2)
IN ACCORDANCE WITH THE INTENT OF SLANT SHEET	MIL-PRF-39012/26 REF.
RECOMMENDED MATING TORQUE	20 IN-LBS. NOM.
COUPLING PROOF TORQUE	25 IN-LBS. MIN.
COUPLING NUT RETENTION	100 LBS. MIN.
FORCE TO ENGAGE	2 IN-LBS. MAX.
FORCE TO DISENGAGE	2 IN-LBS. MIN.
DURABILITY	500 CYCLES MIN.
AXIAL CONTACT RETENTION (FROM INTERFACE)	6 LBS. MIN. (BOTH DIRECTIONS)
CABLE RETENTION	20 LBS. MIN.
MASS	26.20 GRAMS NOM.

ELECTRICAL CHARACTERISTICS

IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	12.7 GHz
VSWR DC - 12.7 GHz	1.15:1 MAX.
INSERTION LOSS	$0.045 \sqrt{f}$ (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	2100 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 3 GHz	-80 dB
CORONA	540 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	1400 Vrms MIN.
CONTACT RESISTANCE (INNER)	1.5 MilliOhms MAX.
CONTACT RESISTANCE (OUTER)	0.2 MilliOhms MAX.
C.W. POWER	200 WATTS THROUGH 8 GHz IN VACUUM (ANALYSIS)
PEAK POWER (MULTIPLICATION)	700 WATTS THROUGH 8 GHz IN VACUUM (ANALYSIS)

ENVIRONMENTAL CHARACTERISTICS

OPERATING TEMPERATURE	-100 °C TO 150 °C
VIBRATION	MIL-STD-202, METHOD 204, CONDITION B
MECHANICAL SHOCK	MIL-STD-202, METHOD 213, CONDITION I
THERMAL SHOCK	MIL-STD-202, METHOD 107, CONDITION B
CORROSION	MIL-STD-202, METHOD 101, CONDITION B, 5%

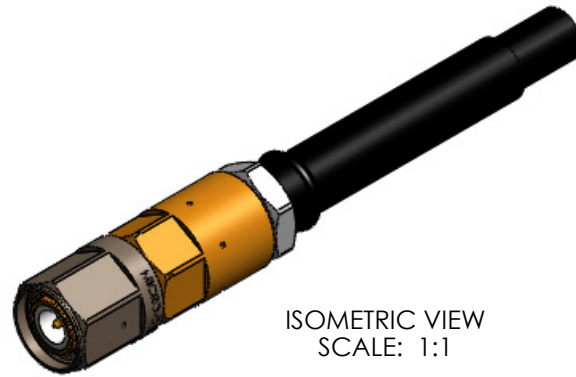
MATERIALS AND FINISH

BODY, BUSHING	BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER ASTM-B488, OVER COPPER PLATE PER ASTM-B734
COUPLING NUT	ALUMINUM ALLOY PER ASTM-B-221, HARD COAT ANODIZE PER MIL-A-8625 (STANDARD GRAY/BLACK COLOR)
SNAP RING	BERYLLIUM COPPER PER ASTM-B-197
CLAMP NUT	STEEL, CORROSION RESISTANT PER ASTM-A-582, PASSIVATE PER ASTM-A-967
CONTACT & CONTACT RING	BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER ASTM- B488, OVER NICKEL PER ASTM-B733, OVER COPPER FLASH PER SAE-AMS 2418
INSULATORS	TFE FLUOROCARBON PER ASTM-D-1710
DIELECTRIC STOPS	POLYIMIDE, PER ASTM D-6456 (TYPE 1)

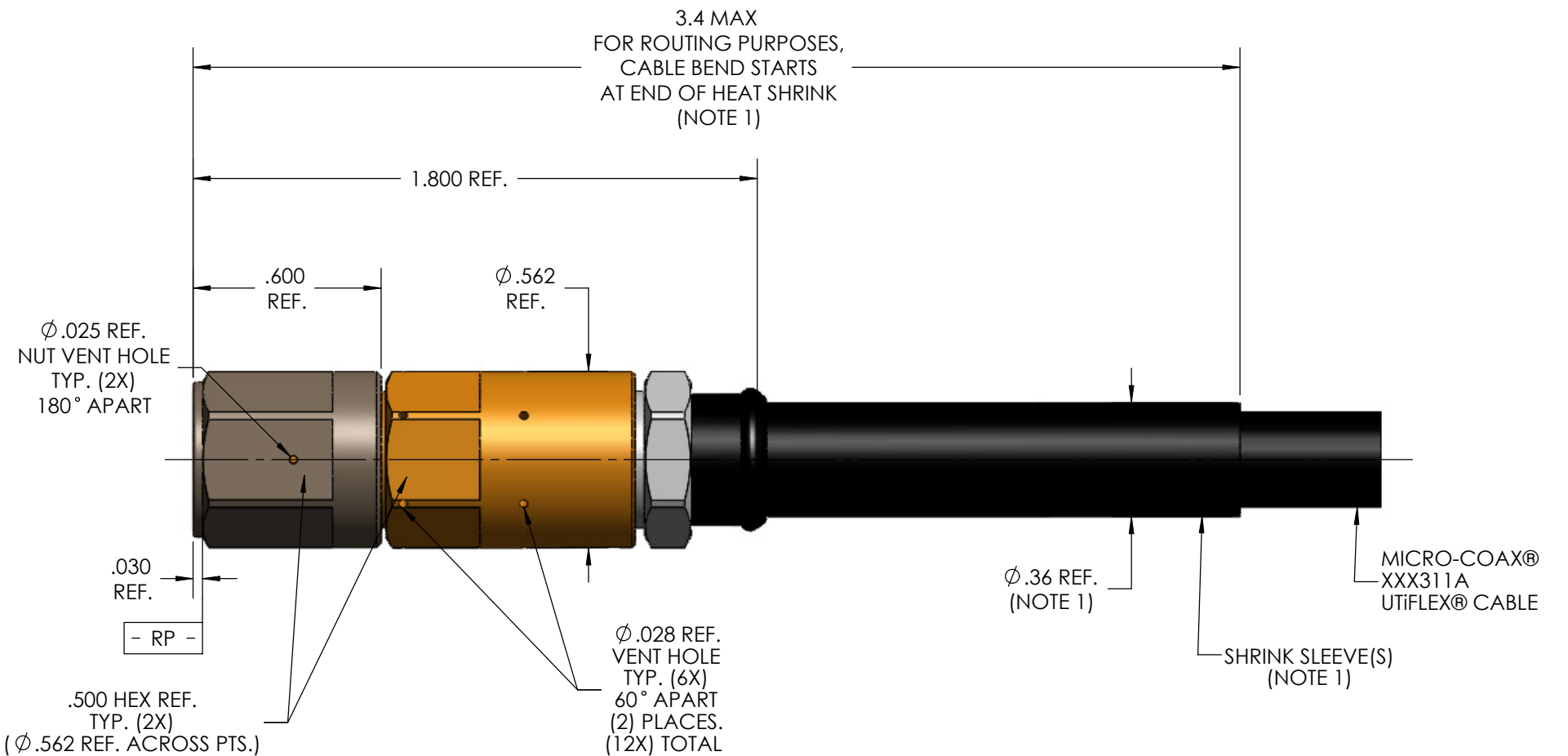
APPLICATION

CABLE(S)	XXX311A
INSTALLATION	PER CONFIGURATOR
CONNECTOR CODE SHEET 1	A0Q
CONNECTOR CODE SHEET 2	AQQ

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REV	DESCRIPTION	DATE	BY	APPVD	CHKD
A	INITIAL RELEASE - ECO 115612	10/7/2011	MJM	RS	CCF
B	ECO 125426	8/10/2012	MJM	RS	CCF

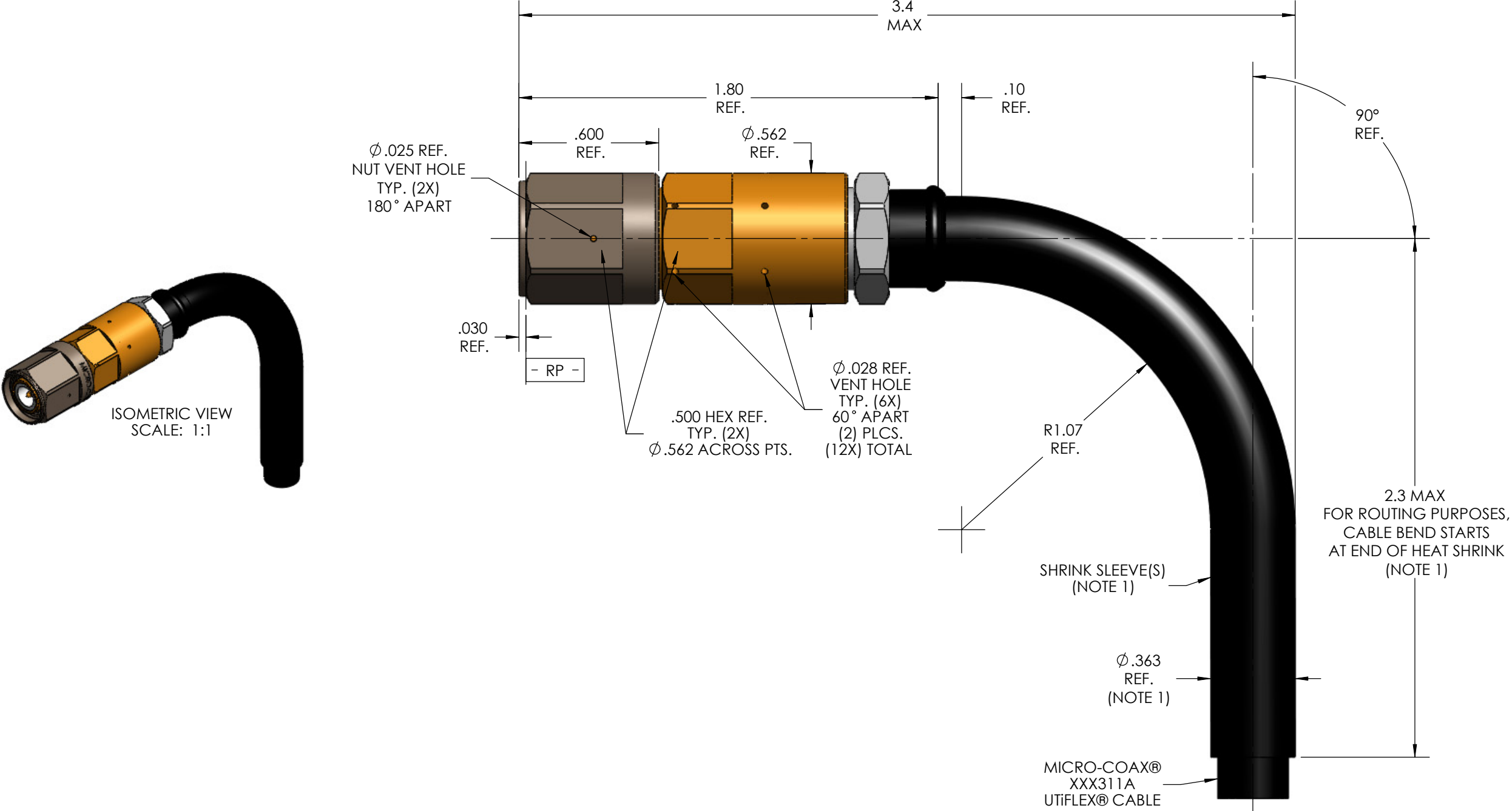


NOTE:

1. MARKER LOCATION ON THIS DRAWING IS FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE.
2. THE MINIMUM DIMENSION FOR THE SHOULDER OF THE CENTER CONTACT SHALL BE 0.208 PER MIL-STD-348A, FIG. 313.3, NOTICE 1, DIM E
3. ALL SPECIFICATIONS LISTED ON THIS DRAWING WILL ALSO APPLY TO CONNECTOR 904838-EM (EQUIPMENT MODEL).
4. SEE SHEET 2 FOR HEAT SHRINK FORMED ELBOW CONFIGURATION.

SPECIFICATION DRAWING

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		DWN.	PLM	8/4/08							
		CHKD.	CCF	8/10/12							
		APPVD.									
TOLERANCES UNLESS OTHERWISE SPECIFIED		TITLE									
		TNC PLUG, HIGH POWER, PIM RESISTANT, XXX311A, SPACE GRADE									
.XX	± .02	ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. SCREW THDS. TO BE IN ACCORD WITH ANSI B1.1-1989.				FSCM NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.	REV
.XXX	± .005										
.XXXX	± .0010										
ANGLES	± 2°										
		64639				B	2:1	1 OF 2	SD904838	B	



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		DWN.	PLM	8/4/08					
		CHKD.	CCF	8/10/12					
		APPVD.							
.XX	± .02	TITLE		TNC PLUG, HIGH POWER, PIM RESISTANT, HEAT SHRINK FORMED ELBOW, XXX311A CABLE, SPACE GRADE					
.XXX	± .005								
.XXXX	± .0010								
ANGLES	± 2°								
				FSCM NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.	REV.
				64639	B	2:1	2 OF 2	SD904838	B